

APPLICANT(S): PALTI, Yoram et al.  
SERIAL NO.: 10/532,808  
FILED: April 26, 2005  
Page 2

### AMENDMENTS TO THE CLAIMS

Please amend claims 22, 30 and 32.

Please cancel claims 34 and 35.

This listing of claims will replace all versions, and listings, of claims in the application.

#### Listing of Claims

1-21. (Canceled)

22. (Currently amended) A method for ~~in-vivo~~ in vivo detection of ~~H. pylori~~ H. pylori the method comprising:

inserting an autonomous ~~in-vivo~~ in vivo sensing device into an upper gastrointestinal tract of a patient;

causing the autonomous in vivo device to contact at least one location of the upper gastrointestinal tract by rotating said patient;

sensing pH ~~in-at least one~~ at the location ~~in~~ of the upper gastrointestinal tract using said autonomous ~~in-vivo~~ in vivo device;

processing pH data sensed to determine presence of H. pylori; and  
transmitting pH data to an external receiving unit.

23. (Original) The method according to claim 22, further comprising indicating a pH value which is about equal to or exceeds a predetermined threshold.

24. (Original) The method according to claim 22, wherein sensing pH is by imaging a color changing pH indicator.

25. (Previously Presented) The method according to claim 23, wherein the pH value is about 5.5.

26-29. (Canceled)

APPLICANT(S): PALTI, Yoram et al.  
SERIAL NO.: 10/532,808  
FILED: April 26, 2005  
Page 3

30. (Currently amended) The method according to claim 22, further comprising imaging the gastrointestinal tract using said autonomous ~~in-vivo~~ in vivo device.

31. (Previously Presented) The method according to claim 30, wherein the step of transmitting pH data further comprises transmitting image data.

32. (Currently amended) The method according to claim 22, further comprising ingesting urea into said patient prior to inserting the autonomous ~~in-vivo~~ in vivo device.

33. (Previously Presented) The method according to claim 22, further comprising the step of indicating a pH change which is about equal to or exceeds a predetermined threshold.

34-35. (Canceled)

36. (Previously Presented) A method according to claim 22, wherein transmitting is by radio frequency.